1646

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RAW SEQUENCE LISTING DATE: 07/09/2002
PATENT APPLICATION: US/09/705,985 TIME: 16:07:59

Input Set : A:\2874-B.ST25.txt
Output Set: N:\CRF3\07092002\I705985.raw


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 3 <110> APPLICANT: ANDERSON, Dirk, M.
 4       GALIBERT, Laurent, J.
 6 <120> TITLE OF INVENTION: METHOD OF INHIBITING OSTEOCLAST ACTIVITY
 8 <130> FILE REFERENCE: 2874-B
10 <140> CURRENT APPLICATION NUMBER: 09/705,985
11 <141> CURRENT FILING DATE: 2000-11-03
13 <150> PRIOR APPLICATION NUMBER: PCT/US99/10588
14 <151> PRIOR FILING DATE: 1999-05-13
16 <150> PRIOR APPLICATION NUMBER: 60/085,487
17 <151> PRIOR FILING DATE: 1998-05-14
19 <150> PRIOR APPLICATION NUMBER: 60/110,836
20 <151> PRIOR FILING DATE: 1998-12-03
22 <150> PRIOR APPLICATION NUMBER: 08/996,139
23 <151> PRIOR FILING DATE: 1997-12-22
25 <150> PRIOR APPLICATION NUMBER: 60/064,671
26 <151> PRIOR FILING DATE: 1997-10-14
28 <150> PRIOR APPLICATION NUMBER: 60/077,181
29 <151> PRIOR FILING DATE: 1997-03-07
31 <150> PRIOR APPLICATION NUMBER: 60/059,978
32 <151> PRIOR FILING DATE: 1996-12-23
34 <160> NUMBER OF SEQ ID NOS: 8
36 <170> SOFTWARE: PatentIn version 3.1
38 <210> SEQ ID NO: 1
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40 <212> TYPE: DNA
41 <213> ORGANISM: Homo sapiens
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44 <221> NAME/KEY: CDS
45 <222> LOCATION: (39)..(1886)
46 <223> OTHER INFORMATION:
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51                                             Met Ala Pro Arg Ala Arg
52                                             1               5
54 cgg cgc cgc ccg ctg ttc gcg ctg ctg ctg ctc tgc gcg ctg ctc gcc     104
55 Arg Arg Arg Pro Leu Phe Ala Leu Leu Leu Leu Cys Ala Leu Leu Ala
56             10                  15                  20
58 cgg ctg cag gtg gct ttg cag atc gct cct cca tgt acc agt gag aag     152
59 Arg Leu Gln Val Ala Leu Gln Ile Ala Pro Pro Cys Thr Ser Glu Lys
60         25                  30                  35
62 cat tat gag cat ctg gga cgg tgc tgt aac aaa tgt gaa cca gga aag     200
63 His Tyr Glu His Leu Gly Arg Cys Cys Asn Lys Cys Glu Pro Gly Lys
64     40                  45                  50
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66 tac atg tct tct aaa tgc act act acc tct gac agt gta tgt ctg ccc      248
67 Tyr Met Ser Ser Lys Cys Thr Thr Thr Ser Asp Ser Val Cys Leu Pro
68 55                  60                  65                  70
70 tgt ggc ccg gat gaa tac ttg gat agc tgg aat gaa gaa gat aaa tgc      296
71 Cys Gly Pro Asp Glu Tyr Leu Asp Ser Trp Asn Glu Glu Asp Lys Cys
72                  75                  80                  85
74 ttg ctg cat aaa gtt tgt gat aca ggc aag gcc ctg gtg gcc gtg gtc      344
75 Leu Leu His Lys Val Cys Asp Thr Gly Lys Ala Leu Val Ala Val Val
76             90                  95                  100
78 gcc ggc aac agc acg acc ccc cgg cgc tgc gcg tgc acg gct ggg tac      392
79 Ala Gly Asn Ser Thr Thr Pro Arg Arg Cys Ala Cys Thr Ala Gly Tyr
80         105                 110                 115
82 cac tgg agc cag gac tgc gag tgc tgc cgc cgc aac acc gag tgc gcg      440
83 His Trp Ser Gln Asp Cys Glu Cys Cys Arg Arg Asn Thr Glu Cys Ala
84     120                 125                 130
86 ccg ggc ctg ggc gcc cag cac ccg ttg cag ctc aac aag gac aca gtg      488
87 Pro Gly Leu Gly Ala Gln His Pro Leu Gln Leu Asn Lys Asp Thr Val
88 135                 140                 145                 150
90 tgc aaa cct tgc ctt gca ggc tac ttc tct gat gcc ttt tcc tcc acg      536
91 Cys Lys Pro Cys Leu Ala Gly Tyr Phe Ser Asp Ala Phe Ser Ser Thr
92                 155                 160                 165
94 gac aaa tgc aga ccc tgg acc aac tgt acc ttc ctt gga aag aga gta      584
95 Asp Lys Cys Arg Pro Trp Thr Asn Cys Thr Phe Leu Gly Lys Arg Val
96             170                 175                 180
98 gaa cat cat ggg aca gag aaa tcc gat gcg gtt tgc agt tct tct ctg      632
99 Glu His His Gly Thr Glu Lys Ser Asp Ala Val Cys Ser Ser Ser Leu
100         185                 190                 195
102 cca gct aga aaa cca cca aat gaa ccc cat gtt tac ttg ccc ggt tta      680
103 Pro Ala Arg Lys Pro Pro Asn Glu Pro His Val Tyr Leu Pro Gly Leu
104     200                 205                 210
106 ata att ctg ctt ctc ttc gcg tct gtg gcc ctg gtg gct gcc atc atc      728
107 Ile Ile Leu Leu Leu Phe Ala Ser Val Ala Leu Val Ala Ala Ile Ile
108 215                 220                 225                 230
110 ttt ggc gtt tgc tat agg aaa aaa ggg aaa gca ctc aca gct aat ttg      776
111 Phe Gly Val Cys Tyr Arg Lys Lys Gly Lys Ala Leu Thr Ala Asn Leu
112                 235                 240                 245
114 tgg cac tgg atc aat gag gct tgt ggc cgc cta agt gga gat aag gag      824
115 Trp His Trp Ile Asn Glu Ala Cys Gly Arg Leu Ser Gly Asp Lys Glu
116             250                 255                 260
118 tcc tca ggt gac agt tgt gtc agt aca cac acg gca aac ttt ggt cag      872
119 Ser Ser Gly Asp Ser Cys Val Ser Thr His Thr Ala Asn Phe Gly Gln
120         265                 270                 275
122 cag gga gca tgt gaa ggt gtc tta ctg ctg act ctg gag gag aag aca      920
123 Gln Gly Ala Cys Glu Gly Val Leu Leu Leu Thr Leu Glu Glu Lys Thr
124     280                 285                 290
126 ttt cca gaa gat atg tgc tac cca gat caa ggt ggt gtc tgt cag ggc      968
127 Phe Pro Glu Asp Met Cys Tyr Pro Asp Gln Gly Gly Val Cys Gln Gly
128 295                 300                 305                 310
130 acg tgt gta gga ggt ggt ccc tac gca caa ggc gaa gat gcc agg atg     1016
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131 Thr Cys Val Gly Gly Gly Pro Tyr Ala Gln Gly Glu Asp Ala Arg Met
132                 315                 320                 325
134 ctc tca ttg gtc agc aag acc gag ata gag gaa gac agc ttc aga cag     1064
135 Leu Ser Leu Val Ser Lys Thr Glu Ile Glu Glu Asp Ser Phe Arg Gln
136             330                 335                 340
138 atg ccc aca gaa gat gaa tac atg gac agg ccc tcc cag ccc aca gac     1112
139 Met Pro Thr Glu Asp Glu Tyr Met Asp Arg Pro Ser Gln Pro Thr Asp
140         345                 350                 355
142 cag tta ctg ttc ctc act gag cct gga agc aaa tcc aca cct cct ttc     1160
143 Gln Leu Leu Phe Leu Thr Glu Pro Gly Ser Lys Ser Thr Pro Pro Phe
144     360                 365                 370
146 tct gaa ccc ctg gag gtg ggg gag aat gac agt tta agc cag tgc ttc     1208
147 Ser Glu Pro Leu Glu Val Gly Glu Asn Asp Ser Leu Ser Gln Cys Phe
148 375                 380                 385                 390
150 acg ggg aca cag agc aca gtg ggt tca gaa agc tgc aac tgc act gag     1256
151 Thr Gly Thr Gln Ser Thr Val Gly Ser Glu Ser Cys Asn Cys Thr Glu
152                 395                 400                 405
154 ccc ctg tgc agg act gat tgg act ccc atg tcc tct gaa aac tac ttg     1304
155 Pro Leu Cys Arg Thr Asp Trp Thr Pro Met Ser Ser Glu Asn Tyr Leu
156             410                 415                 420
158 caa aaa gag gtg gac agt ggc cat tgc ccg cac tgg gca gcc agc ccc     1352
159 Gln Lys Glu Val Asp Ser Gly His Cys Pro His Trp Ala Ala Ser Pro
160         425                 430                 435
162 agc ccc aac tgg gca gat gtc tgc aca ggc tgc cgg aac cct cct ggg     1400
163 Ser Pro Asn Trp Ala Asp Val Cys Thr Gly Cys Arg Asn Pro Pro Gly
164     440                 445                 450
166 gag gac tgt gaa ccc ctc gtg ggt tcc cca aaa cgt gga ccc ttg ccc     1448
167 Glu Asp Cys Glu Pro Leu Val Gly Ser Pro Lys Arg Gly Pro Leu Pro
168 455                 460                 465                 470
170 cag tgc gcc tat ggc atg ggc ctt ccc cct gaa gaa gaa gcc agc agg     1496
171 Gln Cys Ala Tyr Gly Met Gly Leu Pro Pro Glu Glu Glu Ala Ser Arg
172                 475                 480                 485
174 acg gag gcc aga gac cag ccc gag gat ggg gct gat ggg agg ctc cca     1544
175 Thr Glu Ala Arg Asp Gln Pro Glu Asp Gly Ala Asp Gly Arg Leu Pro
176             490                 495                 500
178 agc tca gcg agg gca ggt gcc ggg tct gga agc tcc cct ggt ggc cag     1592
179 Ser Ser Ala Arg Ala Gly Ala Gly Ser Gly Ser Ser Pro Gly Gly Gln
180         505                 510                 515
182 tcc cct gca tct gga aat gtg act gga aac agt aac tcc acg ttc atc     1640
183 Ser Pro Ala Ser Gly Asn Val Thr Gly Asn Ser Asn Ser Thr Phe Ile
184     520                 525                 530
186 tcc agc ggg cag gtg atg aac ttc aag ggc gac atc atc gtg gtc tac     1688
187 Ser Ser Gly Gln Val Met Asn Phe Lys Gly Asp Ile Ile Val Val Tyr
188 535                 540                 545                 550
190 gtc agc cag acc tcg cag gag ggc gcg gcg gcg gct gcg gag ccc atg     1736
191 Val Ser Gln Thr Ser Gln Glu Gly Ala Ala Ala Ala Ala Glu Pro Met
192                 555                 560                 565
194 ggc cgc ccg gtg cag gag gag acc ctg gcg cgc cga gac tcc ttc gcg     1784
195 Gly Arg Pro Val Gln Glu Glu Thr Leu Ala Arg Arg Asp Ser Phe Ala
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196             570                 575                 580
198 ggg aac ggc ccg cgc ttc ccg gac ccg tgc ggc ggc ccc gag ggg ctg     1832
199 Gly Asn Gly Pro Arg Phe Pro Asp Pro Cys Gly Gly Pro Glu Gly Leu
200         585                 590                 595
202 cgg gag ccg gag aag gcc tcg agg ccg gtg cag gag caa ggc ggg gcc     1880
203 Arg Glu Pro Glu Lys Ala Ser Arg Pro Val Gln Glu Gln Gly Gly Ala
204     600                 605                 610
206 aag gct tgagcgcccc ccatggctgg gagcccgaag ctcggagcca gggctcgcga      1936
207 Lys Ala
208 615
210 gggcagcacc gcagcctctg ccccagcccc ggccacccag ggatcgatcg gtacagtcga   1996
212 ggaagaccac ccggcattct ctgcccactt tgccttccag gaaatgggct tttcaggaag   2056
214 tgaattgatg aggactgtcc ccatgcccac ggatgctcag cagcccgccg cactggggca   2116
216 gatgtctccc ctgccactcc tcaaactcgc agcagtaatt tgtggcacta tgacagctat   2176
218 ttttatgact atcctgttct gtgggggggg ggtctatgtt ttccccccat atttgtattc   2236
220 cttttcataa cttttcttga tatctttcct ccctcttttt taatgtaaag gttttctcaa   2296
222 aaattctcct aaaggtgagg gtctctttct tttctctttt cctttttttt ttctttttt    2356
224 ggcaacctgg ctctggccca ggctagagtg cagtggtgcg attatagccc ggtgcagcct   2416
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238 aacatgtggt gggactttca tattctgaaa aatgttctat attctcattt ttctaaaaga   2836
240 aagaaaaaag gaaacccgat ttatttctcc tgaatctttt taagtttgtg tcgttcctta   2896
242 agcagaacta agctcagtat gtgaccttac ccgctaggtg gttaatttat ccatgctggc   2956
244 agaggcactc aggtacttgg taagcaaatt tctaaaactc caagttgctg cagcttggca   3016
246 ttcttcttat tctagaggtc tctctggaaa agatggagaa aatgaacagg acatggggct   3076
248 cctggaaaga aagggcccgg gaagttcaag gaagaataaa gttgaaattt taaaaaaaaa   3136
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252 <211> LENGTH: 616
253 <212> TYPE: PRT
254 <213> ORGANISM: Homo sapiens
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262 Leu Cys Ala Leu Leu Ala Arg Leu Gln Val Ala Leu Gln Ile Ala Pro
263             20                  25                  30
266 Pro Cys Thr Ser Glu Lys His Tyr Glu His Leu Gly Arg Cys Cys Asn
267         35                  40                  45
270 Lys Cys Glu Pro Gly Lys Tyr Met Ser Ser Lys Cys Thr Thr Thr Ser
271     50                  55                  60
274 Asp Ser Val Cys Leu Pro Cys Gly Pro Asp Glu Tyr Leu Asp Ser Trp
275 65                  70                  75                  80
278 Asn Glu Glu Asp Lys Cys Leu Leu His Lys Val Cys Asp Thr Gly Lys
279                 85                  90                  95
282 Ala Leu Val Ala Val Val Ala Gly Asn Ser Thr Thr Pro Arg Arg Cys
283             100                 105                 110
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286 Ala Cys Thr Ala Gly Tyr His Trp Ser Gln Asp Cys Glu Cys Cys Arg
287         115                 120                 125
290 Arg Asn Thr Glu Cys Ala Pro Gly Leu Gly Ala Gln His Pro Leu Gln
291     130                 135                 140
294 Leu Asn Lys Asp Thr Val Cys Lys Pro Cys Leu Ala Gly Tyr Phe Ser
295 145                 150                 155                 160
298 Asp Ala Phe Ser Ser Thr Asp Lys Cys Arg Pro Trp Thr Asn Cys Thr
299                 165                 170                 175
302 Phe Leu Gly Lys Arg Val Glu His His Gly Thr Glu Lys Ser Asp Ala
303             180                 185                 190
306 Val Cys Ser Ser Ser Leu Pro Ala Arg Lys Pro Pro Asn Glu Pro His
307         195                 200                 205
310 Val Tyr Leu Pro Gly Leu Ile Ile Leu Leu Leu Phe Ala Ser Val Ala
311     210                 215                 220
314 Leu Val Ala Ala Ile Ile Phe Gly Val Cys Tyr Arg Lys Lys Gly Lys
315 225                 230                 235                 240
318 Ala Leu Thr Ala Asn Leu Trp His Trp Ile Asn Glu Ala Cys Gly Arg
319                 245                 250                 255
322 Leu Ser Gly Asp Lys Glu Ser Ser Gly Asp Ser Cys Val Ser Thr His
323             260                 265                 270
326 Thr Ala Asn Phe Gly Gln Gln Gly Ala Cys Glu Gly Val Leu Leu Leu
327         275                 280                 285
330 Thr Leu Glu Glu Lys Thr Phe Pro Glu Asp Met Cys Tyr Pro Asp Gln
331     290                 295                 300
334 Gly Gly Val Cys Gln Gly Thr Cys Val Gly Gly Gly Pro Tyr Ala Gln
335 305                 310                 315                 320
338 Gly Glu Asp Ala Arg Met Leu Ser Leu Val Ser Lys Thr Glu Ile Glu
339                 325                 330                 335
342 Glu Asp Ser Phe Arg Gln Met Pro Thr Glu Asp Glu Tyr Met Asp Arg
343             340                 345                 350
346 Pro Ser Gln Pro Thr Asp Gln Leu Leu Phe Leu Thr Glu Pro Gly Ser
347         355                 360                 365
350 Lys Ser Thr Pro Pro Phe Ser Glu Pro Leu Glu Val Gly Glu Asn Asp
351     370                 375                 380
354 Ser Leu Ser Gln Cys Phe Thr Gly Thr Gln Ser Thr Val Gly Ser Glu
355 385                 390                 395                 400
358 Ser Cys Asn Cys Thr Glu Pro Leu Cys Arg Thr Asp Trp Thr Pro Met
359                 405                 410                 415
362 Ser Ser Glu Asn Tyr Leu Gln Lys Glu Val Asp Ser Gly His Cys Pro
363             420                 425                 430
366 His Trp Ala Ala Ser Pro Ser Pro Asn Trp Ala Asp Val Cys Thr Gly
367         435                 440                 445
370 Cys Arg Asn Pro Pro Gly Glu Asp Cys Glu Pro Leu Val Gly Ser Pro
371     450                 455                 460
374 Lys Arg Gly Pro Leu Pro Gln Cys Ala Tyr Gly Met Gly Leu Pro Pro
375 465                 470                 475                 480
378 Glu Glu Glu Ala Ser Arg Thr Glu Ala Arg Asp Gln Pro Glu Asp Gly
379                 485                 490                 495
382 Ala Asp Gly Arg Leu Pro Ser Ser Ala Arg Ala Gly Ala Gly Ser Gly
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VERIFICATION SUMMARY DATE: 07/09/2002
PATENT APPLICATION: **US/09/705,985** TIME: 16:08:00

Input Set : **A:\2874-B.ST25.txt**
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